FARZANA ABDULZADA

https://github.com/AstroTech-666

https://myportfolio.netlify.app

EDUCATION

Afghan-Turk Maarif International School   **2020 - 2026**

A private STEM-focused high school specializing in science, technology, engineering, and mathematics.

Inspirit AI Scholar   **August 2024**

An intensive AI research program that allowed me to explore machine learning concepts, work on real-world AI projects, and collaborate with experts in the field.

Non-Trivial Fellowship   **June - 2024**

Received a $2,000 scholarship as a finalist in the Non-Trivial Fellowship 2024. Collaborated with a team to develop a machine learning-based flood prediction tool to mitigate climate change impacts.

AI Programming with Python Nanodegree (Udacity)   **February 2025**

Studied advanced Python concepts and developed multiple hands-on projects, including machine learning models and data analysis applications.

The Knowledge Society   **2025 - 2026**

A prestigious innovation and leadership program that empowers young minds to tackle complex global challenges through cutting-edge technology and research.

VOLUNTEER WORK

Mentor

I co-founded an organization where I taught over 100+ passionate girls about exoplanets, focusing on those closest to us.

Product Developer

I helped develop TimeTek, a student-founded startup, as a software developer. The project aimed to make time management fun and engaging for students.

PROJECTS

StockMind

Predicts stock prices of AAPL, MSFT, AMZN, and TSLA using deep learning models like LSTM and Linear Regression. With an accuracy of 85%, uses Yahoo Finance data for precise forecasting.

AI Based Credit Card Fraud Detection

Uses machine learning and deep learning algorithms to identify fraudulent transactions. It employs models like XGBoost, ANN, and LSTM, trained on financial datasets to classify transactions as fraudulent or legitimate.

PhysiXplorer

PhysiXplorer is an open-source project by me and my team, offering interactive physics simulations for students. Users can explore and customize simulations on topics like motion, energy, and waves with educational insights.

Wildfire Detection

The Wildfire Detection project uses computer vision to identify fire and smoke in images, trained on the D-Fire dataset with YOLOv8. It features a Streamlit app for demonstration, showcasing the model's fire detection capabilities.